

75mm Travel, High Precision Linear Motor Stage, Integrated Controller, Linear Encoder

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1

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S\$10,559⁰⁵

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SPECIFICATIONS

General	
Metric	Type:
Yes	Encoder:
Manual Control/ LED Indicators:	
Yes	

Zaber Technologies Inc.	Manufacturer:
Note: Requires a 24-48 VDC power supply and either #15-295 for USB connectivity or #15-297 for RS-232 connectivity. A data cable (#15-296 or #15-299) can be used to daisy chain multiple stages together to control simultaneously.	
Moving Magnet Track Linear Motor	Type of Motor:
Linear Analog Encoder	Encoder Type:
Physical & Mechanical Properties	
Linear (X)	Type of Movement:
Crossed-Roller Bearing	Guide System:
155 x 90	Stage Size (mm):
75	Travel (mm):
1.5	Accuracy (µm):
31	Height (mm):
10	Load Capacity (kg):
<0.2	Repeatability (µm):
0.00061 - 800	Speed (mm/s):
1.26	Weight (kg):
Electrical	
3000	Maximum Operating Current (mA):
Hardware & Interface Connectivity	
Moving Magnet Track Linear Motor	Type of Drive:
Power Supply: Power Supply Required and Sold Separately. USA: #70-960 Europe: #70-960 Japan: #23-662 Korea: #33-773 + #15-304 China: #70-960	
RS-232	Computer Interface:
Environmental & Durability Factors	
0 - 50	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

PRODUCT DETAILS

- 25, 75, 150mm Travel Options
- Up to 800mm/s Speed
- High Repeatability and Accuracy

Zaber™ High Precision Linear Motorized Stages are computer-controlled linear stages that utilize a moving magnet track linear motor and centrally located encoder to accurately and precisely position optical components or subsystems. These stages can connect directly to a computer’s USB or RS-232 port and are compatible with [Zaber Launcher](#) and [Zaber’s Motion Library](#) for quick set up and intuitive automation and control. The linear analog encoder has 1nm count size ensuring 1.5µm positional accuracy, 200µm repeatability, and consistent minimal incremental movement steps down to 20nm. Zaber™ High Precision Linear Motorized Stages are driven by non-cogging ironless linear motors which allow for speeds up to 800 mm/s with a minimum speed and speed resolution of 0.61mm/s. These stages are designed with metric tapped holes for mounting and an indexed knob and push switch for manual control when needed.

Note: A48 VDC universal power supply, data cables for daisy chaining, and computer interface cables (USB or RS-232) are sold separately as accessories.

